

SPSS: Multiple response tables (via Custom tables) (SPSS 24)

This document will show how to generate a multiple response table or cross table as shown below. In this document the Custom tables option is used.

These are the instructions for SPSS24. Instructions for version 23 or older are available at <http://PeterStatistics.com>, although the differences are minimum.

A video showing the instructions being performed is available at: <https://youtu.be/hUW-Cv89sjA>

The example used in the instructions uses the data file *Film preferences.sav* available at the companion website <http://PeterStatistics.com>.

		Count	Column Valid N %
visited cinemas	Visited Pathé de Munt last year	62	49,6%
	Visited The Movies last year	45	36,0%
	Visited Pathé Tuschinski last year	61	48,8%
	Visited Pathé Arena last year	57	45,6%
	Total	125	100,0%

Figure 1. Example output of a frequency table of a multiple response set

		Female		Sex Male		Total	
		Count	Column Valid N %	Count	Column Valid N %	Count	Column Valid N %
visited cinemas	Visited Pathé de Munt last year	33	53,2%	29	46,0%	62	49,6%
	Visited The Movies last year	17	27,4%	28	44,4%	45	36,0%
	Visited Pathé Tuschinski last year	36	58,1%	25	39,7%	61	48,8%
	Visited Pathé Arena last year	28	45,2%	29	46,0%	57	45,6%
	Total	62	100,0%	63	100,0%	125	100,0%

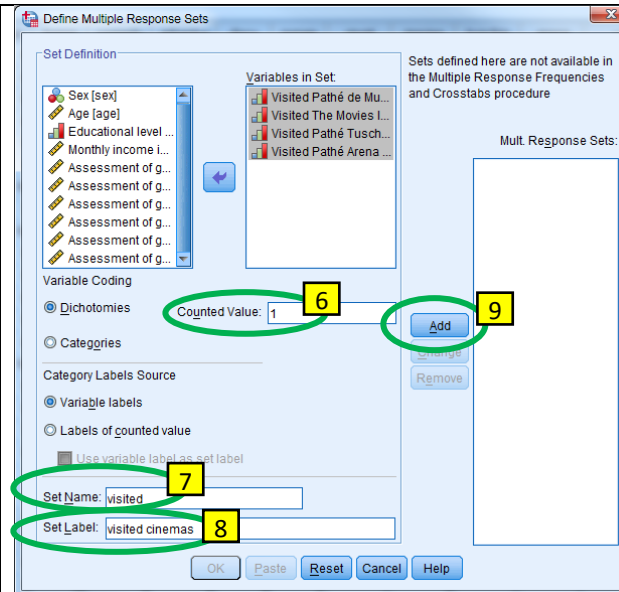
Figure 2. Example output of a frequency table of a multiple response set

Creating a multiple response set

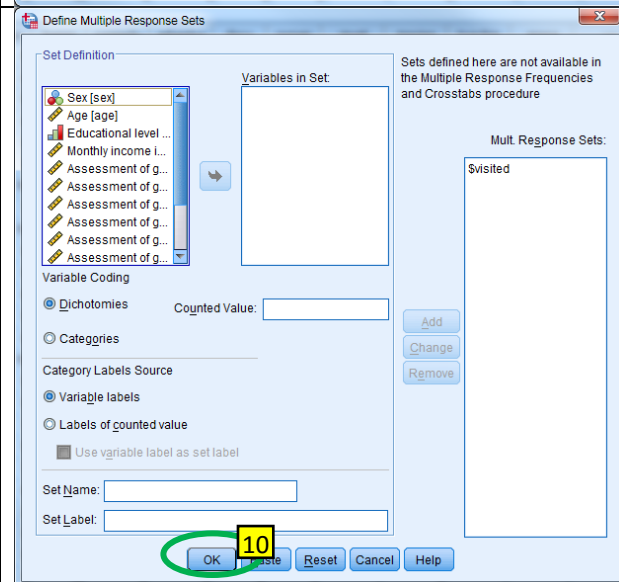
In order to create a frequency table or a cross table from a question with multiple answers, you first need to create a multiple response set.

1. Click in the menubar on Analyze 2. Click on Tables 3. Click on Multiple Response Sets...	The screenshot shows the SPSS Statistics Data Editor window with the 'Analyze' menu open. The 'Tables' option is highlighted, and the 'Multiple Response Sets...' option is selected. The background data table is partially visible.
4. Click on the variables that form the multiple response set (you can use CTRL to select multiple variables) 5. Click on to move them to the Variables in Set section.	The screenshot shows the 'Define Multiple Response Sets' dialog box. The 'Set Definition' section has 'Assessment of g...' selected. The 'Variables in Set' section is empty. The 'Variable Coding' section has 'Dichotomies' selected. The 'Category Labels Source' section has 'Variable labels' selected. The 'Set Name' and 'Set Label' fields are empty. The 'Add' button is highlighted.

6. At Variable Coding, enter the value that you are most interested in. In this example 1 indicated that someone did visit the cinema, and I'm interested in those who did, so at Counted value a 1 is entered in the example.
7. Enter a name for the set. Note that the same rules as for variables apply, so no spaces and cannot start with a number.
8. Enter a label for the set
9. Click on 

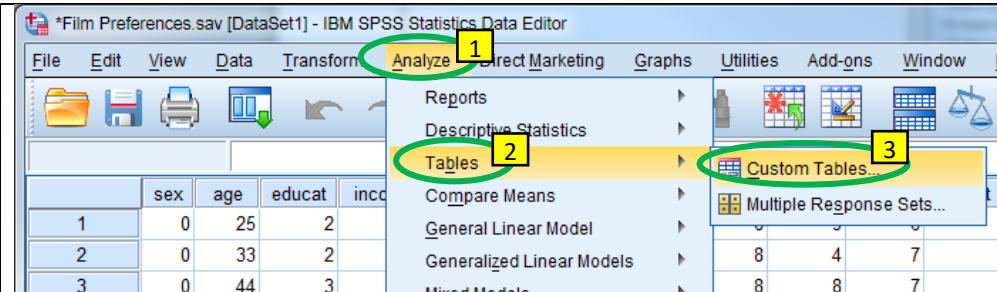


10. Click on 



Generating a frequency table from a multiple response set

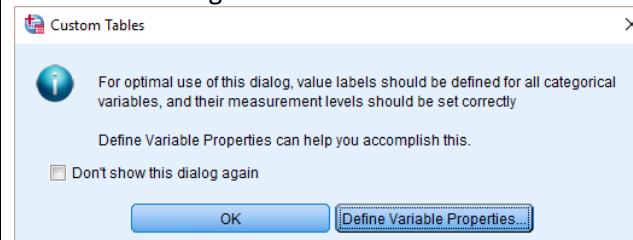
1. Click in the menubar on **Analyze**
2. Click on **Custom Tables**
3. Click on **Custom Tables...**



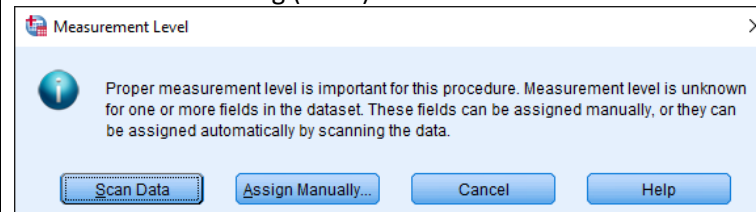
4. You might be prompted with a message that custom tables work best if the labels for all values have been assigned. If you have done so, you can simply click on OK.

You will get a message about measurement level if any of the variables is still set to 'unknown' as a measurement level. SPSS gives you a few options but you might want to cancel in this case, go to the Variable View and check which variables have Measure set to unknown and change them to the proper measurement level.

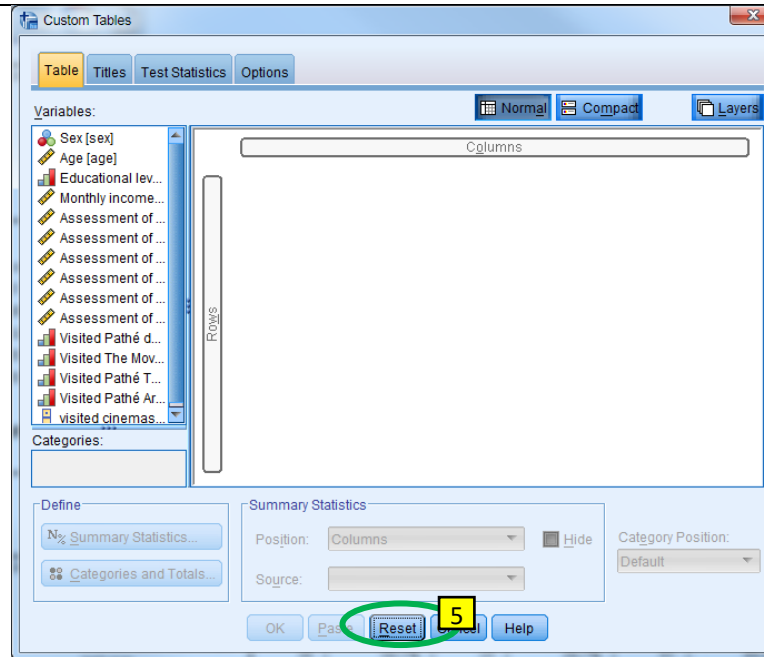
SPSS 22: Warning that it works best if all values are assigned a label.



SPSS 22 & 23: Warning (error) if measurement level of one variable is unknown.



5. Click on **Reset**



6. Click on **All Tabs**

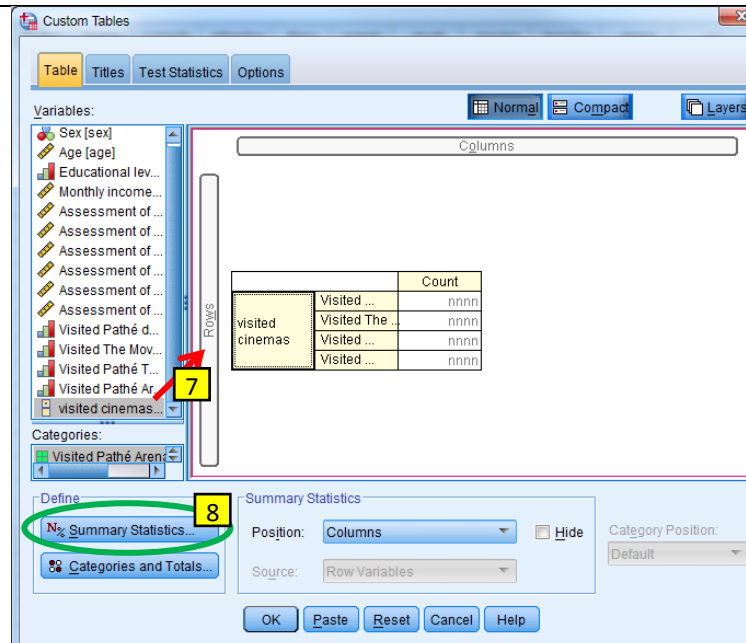


7. **Drag** the multiple response set (at the bottom of the variables list) to the Rows, by dragging it there.

If you want to see *percentages*:

8. Click on **N% Summary Statistics...**

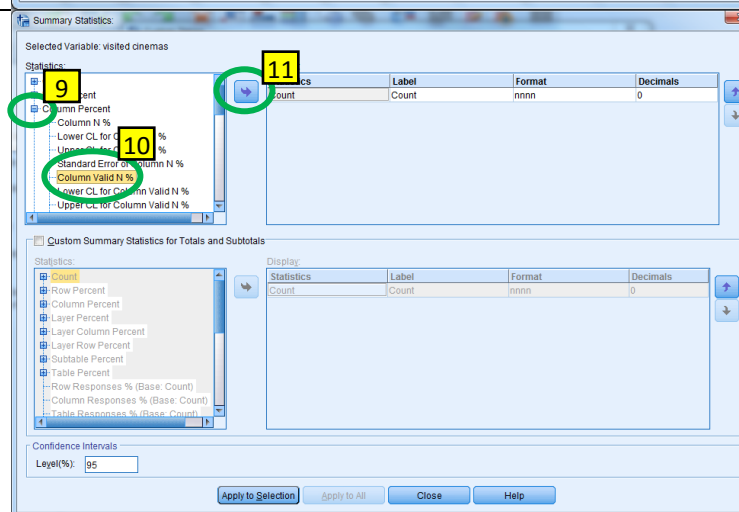
Note: if you cannot click on the *Summary Statistics*, then first click in the table on the multiple response set name or any of the values (the lightly yellow shaded area).



9. From the Statistics list click on **+** in front of the Column Percent

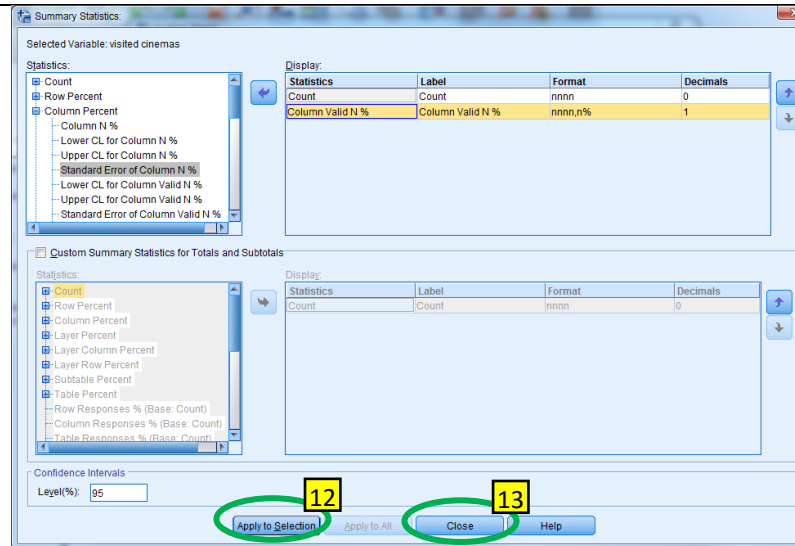
10. Click on Column Valid N%

11. Click on **+** to move Column N% to the Display section.



12. Click on **Apply to Selection**

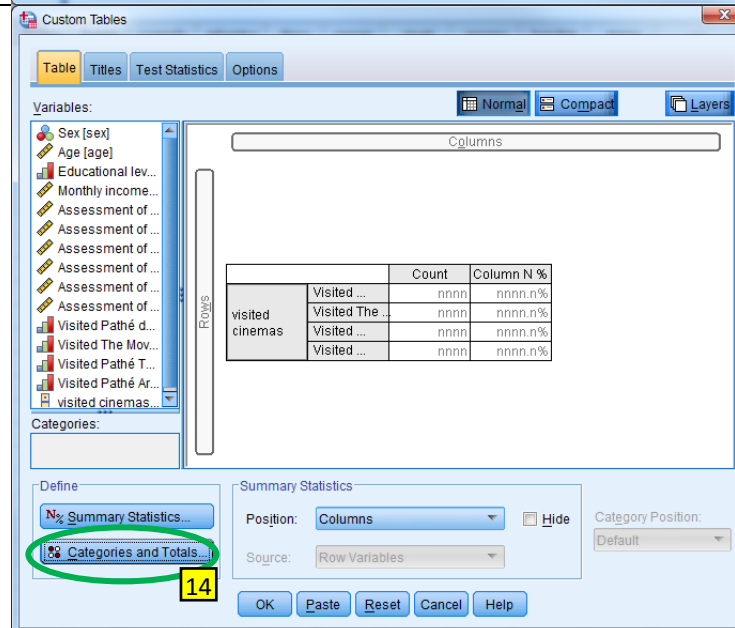
13. Click on Close



If you want the totals to be shown as well:

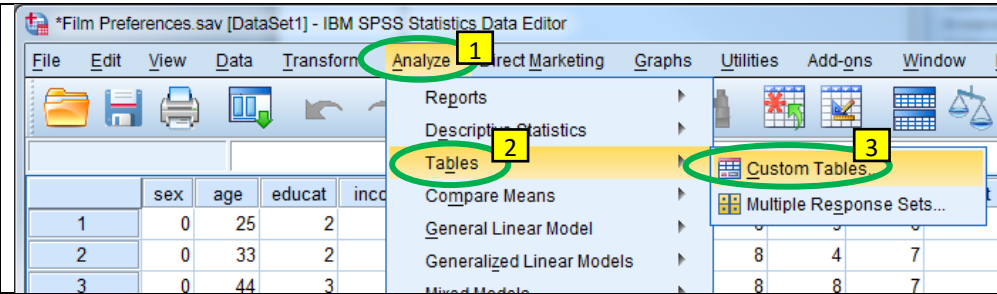
14. Click on Categories and Totals...

*Note: if you cannot click on the **Categories and Totals**, then first click in the table on the multiple response set name or any of the values*



Generating a cross table with a multiple response set

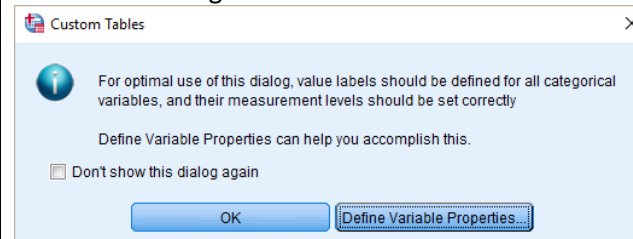
1. Click in the menubar on **Analyze**
2. Click on **Custom Tables**
3. Click on **Custom Tables...**



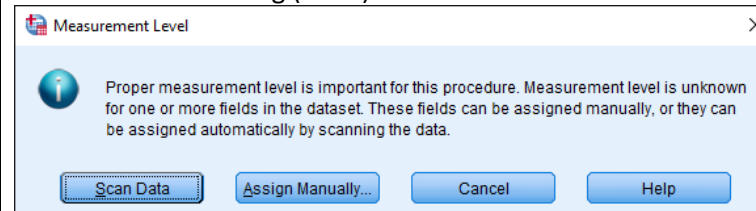
4. You might be prompted with a message that custom tables work best if the labels for all values have been assigned. If you have done so, you can simply click on OK.

You will get a message about measurement level if any of the variables is still set to 'unknown' as a measurement level. SPSS gives you a few options but you might want to cancel in this case, go to the Variable View and check which variables have Measure set to unknown and change them to the proper measurement level.

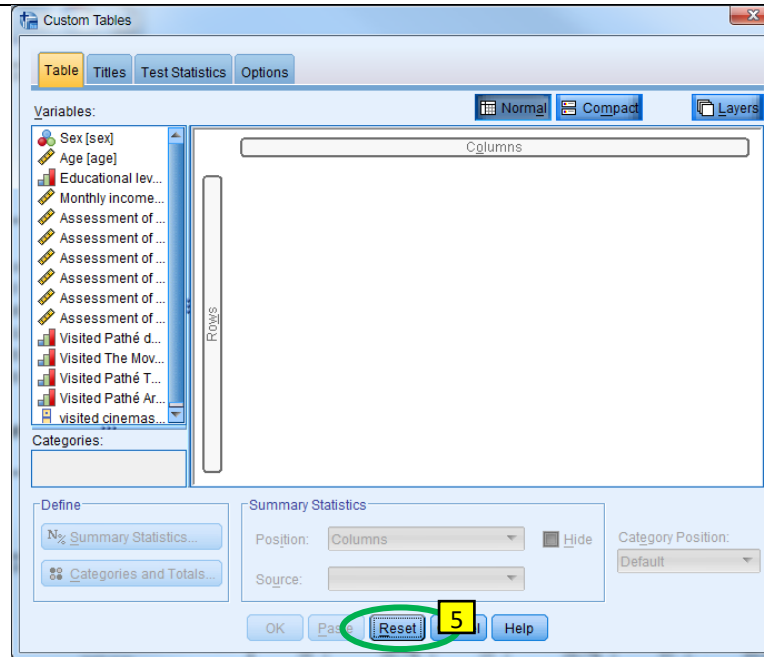
SPSS 22: Warning that it works best if all values are assigned a label.



SPSS 22 & 23: Warning (error) if measurement level of one variable is unknown.



5. Click on **Reset**

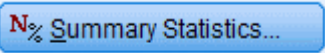


6. Click on **All Tabs**

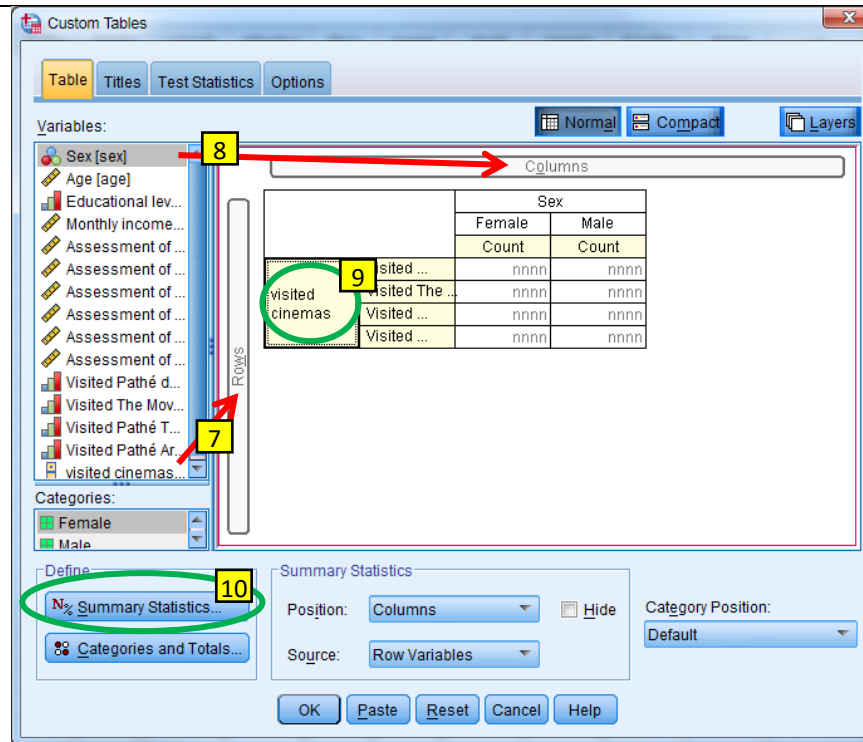


7. **Drag** the multiple response set to the Rows (the multiple response set can be found at the bottom of the Variables list)
8. **Drag** the variable you want to cross it with to the Columns

In case you want to show percentages:

9. Click on the multiple response set name in the main area (the lightly yellow shaded area)
10. Click on 

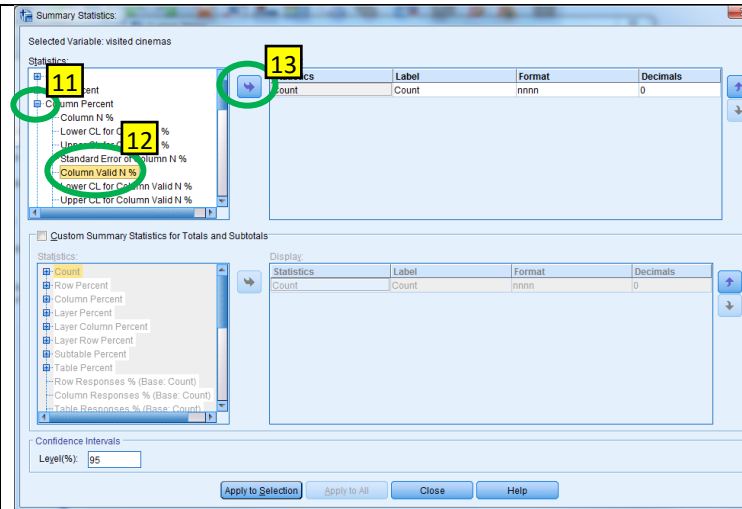
Note: by first dragging the multiple response set and then the other variable, you will have the option to also show the percentages based on responses. However most often you want them based on cases, so it does not matter much.

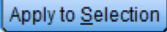


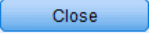
11. From the Statistics list click on  in front of the Column Percent

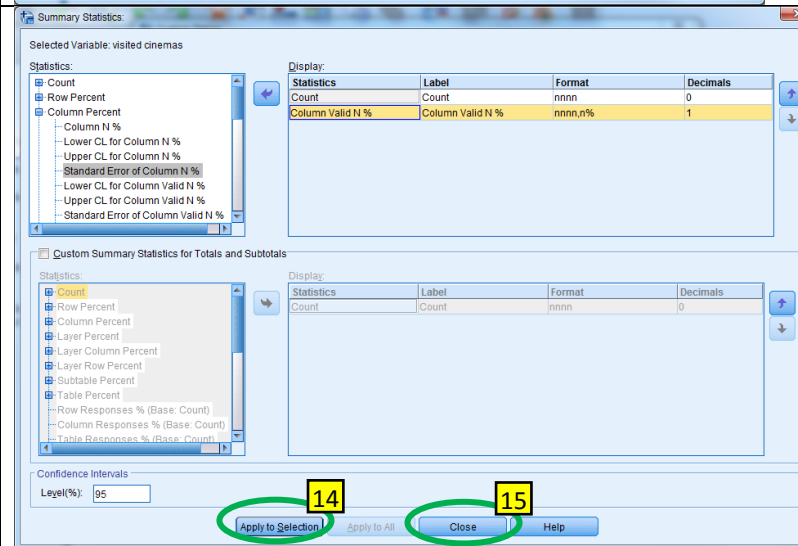
12. Click on Column Valid N%

13. Click on  to move Column N% to the Display section.



14. Click on 

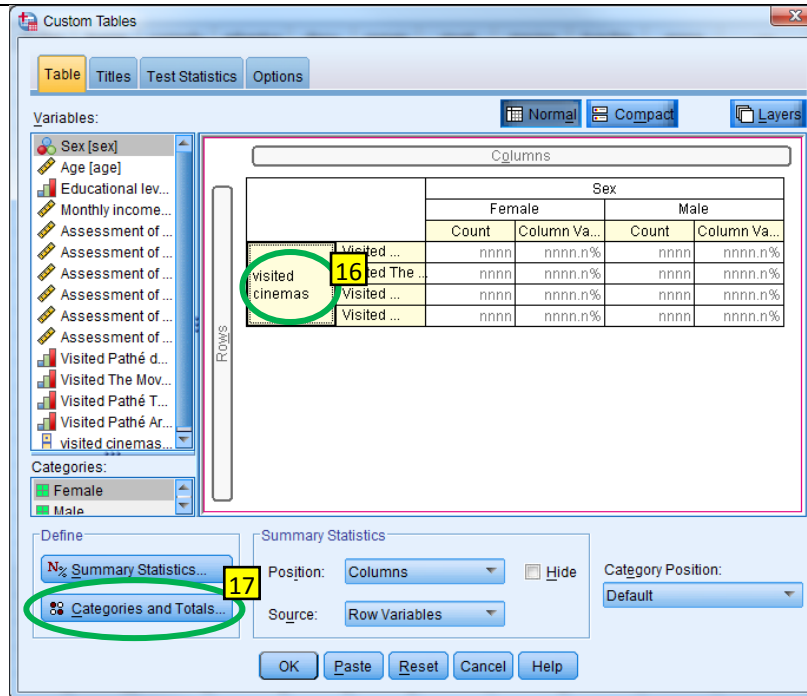
15. Click on 



In case you also want to add the column totals:

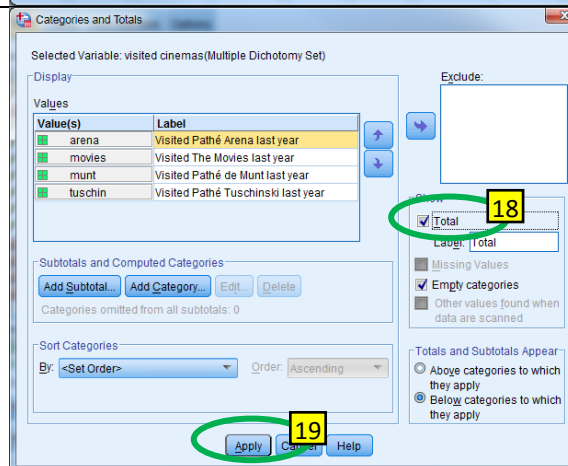
16. Click on the multiple response set name in the main area (the lightly yellow shaded area)

17. Click on  **Categories and Totals...**



18. At the Show section tick the  Total option

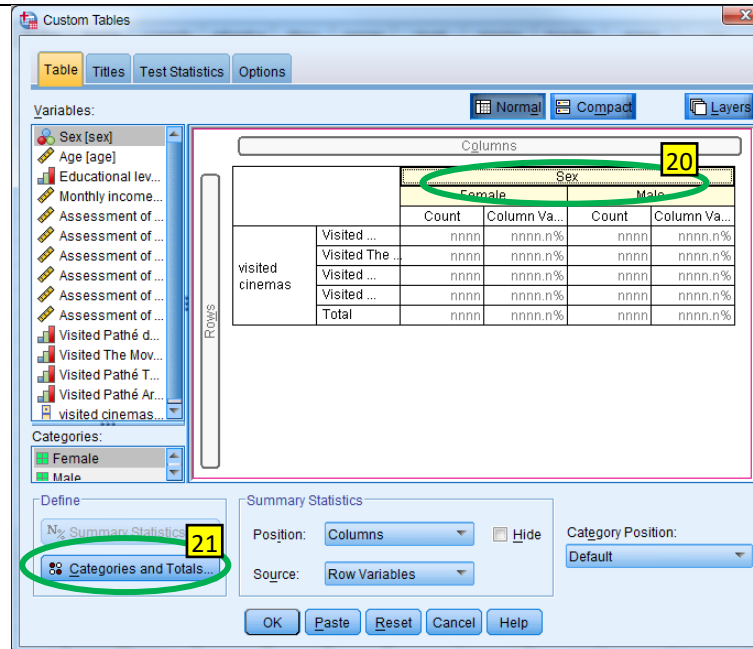
19. Click on 



In case you also want the row totals:

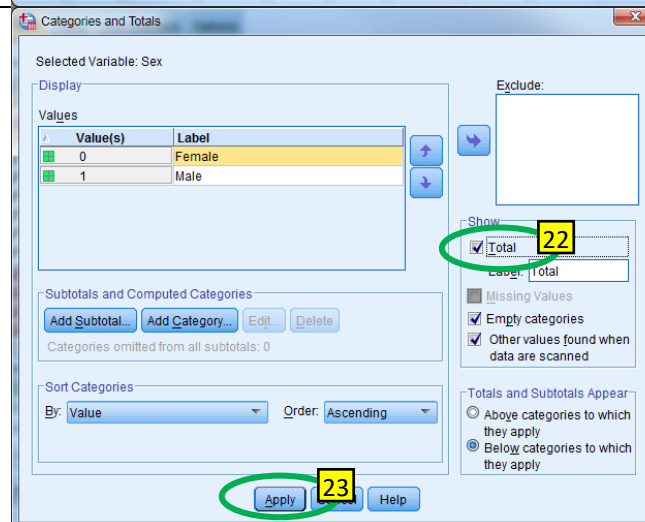
20. Click on variable of the columns (the lightly yellow shaded area)

21. Click on  **Categories and Totals...**



22. At the Show section tick the  **Total** option

23. Click on 



24. Click on

OK

